

BHT prime only
148963

ship July 15

Work Order ID 148963

Tuesday, July 12, 2016 11:26:18 AM

Page 1

Item ID: D412-630-033 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear
Start Date: 7/12/2016 Start Qty: 3.00 *3* Cust Item ID:
Required Date: 7/15/2016 Req'd Qty: 3.00 *3* Customer:
Reference:

Approvals: Process Plan: Sm Date: 16/07/12 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D412-630	Rev O								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & create labels per PPP D412-630-033 CHG005								
110	Small Fab	0.00							
110	Small Fab	0.16							
Small Fab	Assemble as per dwg D412-630 p.14 Coat all hardware with LPS3 rust inhibitor A/R LPS3 batch: <u>123777</u> COAT exposed HARDWARE WITH LPS PROCYON. A/R LPS PROCYON BATCH: <u>133690</u>								

P.T.O.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: <u>148963</u> Part No. <u>D412-630-033</u> NCR No. _____		DISPOSITION Rework ☒ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☒</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☒	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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Date : <u>16-07-13</u>		Step #: <u>110</u>		QTY Effective : <u>(3)</u>		MRB (QSI042) Approval DAS 9 9-89 <u>16-07-13</u>																																																																			
Description Work Order Deviation <u>found during ass. that D2804-041 did not have a countersink (.191" hole in section E-E)</u> <u>P.C. D2804-041 was not rework to release ECN 16-601</u>				Disposition <u>- make countersink on D2804-041 as per Dwg D2804 Rev B J.C.-L</u> <u>- touch up hole with elodine and primer</u>				Completed By J.C.-L. <u>16/07/14</u> DAS 36 9-89																																																																	
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				QC / QA Coordinator Approval <u>PD 16-07-15</u>																																																																					
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OTHER : _____																																																																									

Tuesday, July 12, 2016 11:26:18 AM

1 48963

Page 2

N900040100

Setup Start *NS1*

Stop *NS2*

Stop *NS2*

Start Date: 7/12/2016 **Start Qty:** 3.00 ***3***

Cust Item ID:

Required Date: 7/15/2016 **Req'd Qty:** 3.00 ***3***

Customer:

Reference:

Run Start *NR1*

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop ***NR2***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

[illegible]

JUL 15 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 148963***148963***

Page 3

Tuesday, July 12, 2016 11:26:18 AM

Item ID: D412-630-033 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear
Start Date: 7/12/2016 Start Qty: 3.00 ***3*** Cust Item ID:
Required Date: 7/15/2016 Req'd Qty: 3.00 ***3*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Packaging	0.00							
150									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-630-033								
	Location: _____								
	PPP Rev: _____								
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.05							
Quality Control									

3X
JUL 15 2016
DAS 27 9-89
JUL 15 2016
DAS 21 9-89
JUL 15 2016
DAS 21 9-89
JUL 15 2016

IX sold
2X Bk 003

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
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Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____ _____ _____							
Misidentified	☐	Past Due	☐								

Picklist Print

Tuesday, July 12, 2016 11:26:17 AM

Page 1

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP Rev:A New Issue 06-11-08 JLM
IPP rev B ecn 1019, added d2807-041 EC verified by:DD
IPP rev :C 11.01.06 added route seq ID DD vef:EC IPP REV:D
13.06.07 PER CHG004 DD vef:JLM IPP REV:E 16.06.23
AS PER IIN REV.O DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS24693-C285		Purchased	No			110	Each	36.0000	1	3			
MS24693-C285									**				DAS 6 9-89
Screw													DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST287		36							
				m134558		36							
D3672-17		Manufactured	No			130	Each	400.0000	7	21			
D3672-17									**				DAS 6 9-89
Phenolic Washer													DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST050		400							
				148074		400							
D3672-19		Manufactured	No			130	Each	440.0000	4	12			
D3672-19									**				DAS 6 9-89
Phenolic Washer													DAS 26 9-89
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST050		440							
				148075		440							
DAS 27 9-89													

JUL 12 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Page 2

Tuesday, July 12, 2016 11:26:17 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

D3672-5 Manufactured No

130 Each

664.0000

7 21

D3672-5

Washer, Phenolic

**

DAS
6
9-89

DAS
26
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	8	
44679	8	
ST049	23	
35521	253	19
44679	23	2
ST051A	380	
50354	380	

D3672-7 Manufactured No

130 Each

974.0000

4 12

D3672-7

Washer, Phenolic

**

DAS
6
9-89

DAS
26
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	40	
129987	25	
133986	15	
ST049	434	
134786	3	
142572	431	12
ST051A	500	
147220	500	

D3672-15 Manufactured No

160 Each

261.0000

5 15

D3672-15

Phenolic Washer

**

DAS
6
9-89

JUL 12 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

ST050	261	
148073	261	15

Tuesday, July 12, 2016 11:26:17 AM

Shop Packet Print

Page 2

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
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Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Page 3

Tuesday, July 12, 2016 11:26:17 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

D2012-107

Manufactured No

110

Each

16.0000

1

3

DAS
6
9-89

D2012-107

Clevis

Location

Loc Qty

Loc Code

WA004

16

145274

16

3

D2803-041

Manufactured No

110

Each

3.0000

1

3

DAS
6
9-89

D2803-041

Bracket Assembly

Location

Loc Qty

Loc Code

ST472

3

148427

3

3

D2804-041

Manufactured No

110

Each

4.0000

1

3

DAS
6
9-89

D2804-041

Bracket Assembly

Location

Loc Qty

Loc Code

ST474

4

148422

1

148423

3

3

D2807-041

Manufactured No

110

Each

15.0000

2

6

DAS
6
9-89

D2807-041

Prop Assembly

Location

Loc Qty

Loc Code

FG

2

89606

2

ST010

13

142559

13

6

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 3

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :					
Misidentified ☐	☐ Past Due						

Picklist Print

Page 4

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

D2813

Manufactured No

110

Each

30.0000

2

6

DAS

6

9-89

D2813

Washer

**

Location

Loc Qty

Loc Code

ST011

30

146527

30

D3562-041

Manufactured No

110

Each

0.0000

1

3

DAS

36

9/89

D3562-041

Step Weldment

D3395-1

Manufactured No

110

Each

86.0000

4

12

D3395-1

Bushing

**

DAS

6

9-89

Location

Loc Qty

Loc Code

ST034

86

142347

86

AN3C21A

Purchased No

110

Each

27.0000

1

3

AN3C21A

Bolt

**

DAS

6

9-89

Location

Loc Qty

Loc Code

OVER002

25

M133686

25

ST348

2

M133640

2

JUL 12 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Page 5

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

AN8C16	Purchased	No	110	Each	51.0000	2	6	DAS 6 9-89
AN8C16								
Bolt								

Location	Loc Qty	Loc Code
----------	---------	----------

over005	35	
M133091	7	
M133336	7	
M133920	7	
M133921	7	
M134131	7	

ST332	16	
131651	2	
M132522	7	
M132674	7	

AN310C8	Purchased	No	110	Each	16.0000	2	6	DAS 6 9-89
AN310C8								
Nut								

Location	Loc Qty	Loc Code
----------	---------	----------

ST331	16	
m132677	16	

MS24665-302	Purchased	No	110	Each	44.0000	2	6	DAS 6 9-89
MS24665-302								
Cotter Pin								

Location	Loc Qty	Loc Code
----------	---------	----------

GA	15	
120521	15	
ST288	29	
m134738	29	

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY					
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process								
Misidentified ☐	☐ Past Due	OTHER : _____							

Picklist Print

Page 6

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

MS21043-3

Purchased

No

110

Each

1,140.000

4

12

MS21043-3

Nut

**

DAS

6
9-89

Location

Loc Qty

Loc Code

FG

80

103691

80

FP001

11

m130673

11

GA

237

m133990

237

OVER007

400

m135058

400

ST302

306

m134861

306

ST304

106

m131340

106

MS24693-C280

Purchased

No

110

Each

23.0000

2

6

MS24693-C280

SCREW

**

DAS

6
9-89

Location

Loc Qty

Loc Code

ST287

23

m131624

23

D2806-1

Manufactured

No

130

Each

15.0000

2

6

D2806-1

Bushing

**

DAS

6
9-89

Location

Loc Qty

Loc Code

ST010

15

142466

15

DAS
27
9-89

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Picklist Print

Tuesday, July 12, 2016 11:26:18 AM

Page 7

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

D2806-3 Manufactured No

130

Each

12.0000

2

6

D2806-3

Bushing

**

DAS

6

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST010

12

136702

2

142498

10

D2810-5 Manufactured No

130

Each

12.0000

1

3

D2810-5

Strut

**

DAS

6

9-89

Location

Loc Qty

Loc Code

ST377

12

134899

1

142838

5

146523

6

DAS
27
9-89

D3396-1 Manufactured No

130

Each

18.0000

2

6

D3396-1

Spacer

**

DAS

6

9-89

Location

Loc Qty

Loc Code

ST034

18

142351

18

DAS
27
9-89

JUL 12 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
				OTHER : ☐					

Picklist Print

Page 8

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

AN4C6A

Purchased

No

130

Each

487.0000

1

3

AN4C6A

Bolt

**

DAS
6 26
9-89

Location

Loc Qty

Loc Code

FG

14

103344

4

121657

10

OVER002

300

m134861

150

m134955

150

ST345

173

m134502

73

m135127

100

3

DAS
27
9-89

AN4C10A

Purchased

No

130

Each

13.0000

1

3

AN4C10A

BOLT

**

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST345

13

M131153

4

M134497

9

2

DAS
27

AN5C15A-89

Purchased

No

130

Each

35.0000

2

6

AN5C15A

Bolt

**

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

over003

20

M135058

20

ST337

15

M130466

15

6

DAS
27
9-89

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Picklist Print

Page 9

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

AN44C7A

Purchased

No

130

Each

17.0000

1

3

AN44C7A

Eyebolt

**

DAS 26 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

17

m134502

5

m135127

12

AN4C15A

Purchased

No

130

Each

158.0000

2

6

AN4C15A

Bolt

**

DAS 26 9-89

DAS 26 9-89

Location

Loc Qty

Loc Code

FG

10

120360

10

OVER002

50

M132763

20

M133485

30

ST343

98

M130716

40

M131377

24

M132189

16

M132680

4

M132823

14

DAS
27
9-89

* D3672-15

M 148073 110

(15x)

16/07/13

DAS 36 9-89

* D3672-19

M 148075 110

(12x)

16/07/13

DAS 36 9-89

* D3672-7

M 142572 110

(12x)

16/07/13

DAS 36 9-89

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By			
								Lead hand / Supervisor Approval Verification			
								QC / QA Coordinator Approval			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER :											

Picklist Print

Page 10

Tuesday, July 12, 2016 11:26:18 AM

Work Order ID: 148963

148963

Parent Item: D412-630-033

D412-630-033

Parent Item Name: Folding Heli-Access-Step™ LH - Low, High & Float Gear

Start Date: 7/12/2016

Required Date: 7/15/2016

Start Qty: 3.00

Required Qty: 3.00

MS21043-4

Purchased

No

130

Each

1,039.000

4

12

MS21043-4

Nut

**

DAS
6
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

FG	40	
104603	40	
GA	17	
m132803	17	
OVER007	300	
m134754	300	
ST302	682	
m133769	12	
m134502	300	
m134634	70	
m134943	300	

DAS
27
9-89

MS21043-5

Purchased

No

130

Each

213.0000

3

9

MS21043-5

Nut

**

DAS
6
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

FG	20	
101418	20	
GA	76	
116548	76	
ST302	117	
m132382	9	
m134502	8	
m135157	100	

DAS
27
9-89

JUL 12 2016

Tuesday, July 12, 2016 11:26:18 AM

Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Qty -033	Qty -034	Qty -243	Qty -244	Part Number	Description
X				D412-630-033	HELI-ACCESS-STEP™ LH (FOLDING)
	X			D412-630-034	HELI-ACCESS-STEP™ RH (FOLDING)
1		X		D412-630-243	STEP ASSEMBLY LH
	1		X	D412-630-244	STEP ASSEMBLY RH
		1	1	D2012-107	CLEVIS
		1		D2803-041	STA 84 BRACKET ASSEMBLY LH
			1	D2803-042	STA 84 BRACKET ASSEMBLY RH
		1		D2804-041	STA 155 BRACKET ASSEMBLY LH
			1	D2804-042	STA 155 BRACKET ASSEMBLY RH
2	2			D2806-1	BUSHING
2	2			D2806-3	BUSHING
		2	2	D2807-041	GAS SPRING ASSEMBLY (WAS D2807)
1	1			D2810-5	STRUT
		2	2	D2813	WASHER
		1		D3562-041	STEP WELDMENT LH
			1	D3562-042	STEP WELDMENT RH
		4	4	D3395-1	BUSHING
2	2			D3396-1	SPACER
7	7			D3672-5	WASHER (OR NAS1515H5)
		4	4	D3672-7	WASHER (OR NAS1515H5L)
		5	5	D3672-15	WASHER (OR NAS1515H3)
7	7			D3672-17	WASHER (OR NAS1515H4)
		4	4	D3672-19	WASHER (OR NAS1515H8)
		1	1	AN3C21A	BOLT
1	1			AN4C6A	BOLT /
1	1			AN4C10A	BOLT
2	2			AN4C15A	BOLT
1	1			AN44-C7A	EYEBOLT
2	2			AN5C15A	BOLT
		2	2	AN8C16	BOLT
		2	2	AN310C8	NUT
		2	2	MS24665-302	COTTER PIN (OR AN380C3-4)
		4	4	MS21043-3	NUT
4	4			MS21043-4	NUT
3	3			MS21043-5	NUT
		2	2	MS24693-C280	SCREW (OR MS24694-C65)
		1	1	MS24693-C285	SCREW (OR MS24694-C76)